CLAIMS:

1. A pestivirus which contains one or more mutations in the region containing stem-loops la and lb of the 5' nontranslated region (NTR) of the pestivirus genome, which mutation results in a small plaque size phenotype, and in which the expression of the viral polyprotein is under the control of a homologous internal ribosome entry site (IRES) and the sequence at the 5' end of the genome is GUAU.

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- 2. The pestivirus according to claim 1, characterised in that the pestivirus has more than one mutation in the 5'NTR.
- 3. The pestivirus according to claim 1, characterised in that the mutation is a deletion of one or more nucleotides.
- 4. The pestivirus according to claim 3, characterised in that the mutation is a deletion of stem-loop la.
- The pestivirus according to claim 4, characterised in that the mutation is a
 deletion of stem-loop la and part of stem-loop lb.
 - The pestivirus according to claim 4, characterised in that the mutation is a deletion of stem-loops la and lb, provided that the 5' terminal sequence is GUAUAU or GUAUCCU.
 - 7. The pestivirus according to claims 1 4, characterised in that if the loop portion of stem-loop lb is present, then the loop consists of five adenosine (A) residues.
- The pestivirus according to claims 1 7, characterised in that the pestivirus is
 BVDV-1 or BVDV-2.
- A vaccine comprising a live attenuated pestivirus according to claims 1 8, and a
 pharmaceutically acceptable carrier or diluent.
 - 10. The vaccine according to claim 9, which contains an adjuvant.

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- 11. The vaccine according to claim 9, which is in freeze-dried or frozen form.
- The vaccine according to claim 9, which comprises an live attenuated BVDV and an immunogen derived from one or more of bovine rotavirus, bovine respiratory
- syncytial virus, bovine herpesvirus type 1, bovine coronaviruses, parainfluenza type 3 virus, bovine paramyxovirus, foot and mouth disease virus, infectious bovine rhinotracheitis virus and Pasteurella hemolytica.
- A method of immunizing against a pestivirus-induced disease, comprising
 administering to an animal the vaccine according to claims 9 12.
 - 14. A method of making a vaccine for the protection of an animal against a pestivirus, comprising mixing together a pestivirus according to claims 1 8 with a pharmaceutically acceptable carrier.